

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	IS&R	L1	2	(("4297606") or ("5866815")).PN.	USPAT	2006/07/1 2 08:57	
2	IS&R	L2	1	("4297607") .PN.	USPAT	2006/07/1 2 09:04	
3	BRS	L3	71	Magori-valentin.in.	USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB	2006/07/1 2 09:08	
4	BRS	L4	4	luhr-peter.in.	USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB	2006/07/1 2 09:08	
5	IS&R	L5	388	(310/322) .CCLS.	USPAT	2006/07/1 2 09:15	
6	IS&R	L6	149	(310/322) .CCLS.	US- PGPUB ; EPO; JPO; DERWE NT; IBM_T DB	2006/07/1 2 09:19	
7	IS&R	L7	166	(310/334-336) .CCLS.	US- PGPUB ; EPO; JPO; DERWE NT; IBM_T DB	2006/07/1 2 09:22	
8	IS&R	L8	1048	(310/334) .CCLS.	USPAT	2006/07/1 2 09:37	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
9	IS&R	L9	634	(310/335-336).CCLS.	USPAT	2006/07/12 09:49	
10	IS&R	L10	398	(310/326).CCLS.	USPAT	2006/07/12 09:55	
11	IS&R	L11	46	(310/326).CCLS.	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2006/07/12 09:56	
12	IS&R	L12	10	(310/327).CCLS.	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2006/07/12 09:57	
13	IS&R	L13	216	(310/327).CCLS.	USPAT	2006/07/12 10:02	
14	BRS	L14	1013	matching same (ring or annular) and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/07/12 10:25	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
15	BRS	L15	83	matching same piezoelectric and "side lobes"	US- PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB	2006/07/1 2 10:30	
16	BRS	L16	40	deserno-rolf.in. or pfeiffer-helmut.in.	US- PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB	2006/07/1 2 10:31	

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- 1 Sound of ultrasound sensor**
 Inventor: DESERNO ROLF (DE); PFEIFFER HELMUT (DE)
 EC: H04R17/00
 Publication info: **US2006076854** - 2006-04-13
 Applicant: ENDRESS & HAUSER GMBH & CO KG
 IPC: **H01L41/08; H04R17/00; H01L41/08** (+1)
- 2 Ultrasonic sensor assembly for use in logging-while-drilling applications**
 Inventor: MASSON JEAN-PIERRE (US); PABON MIGUEL F (US)
 EC: B06B1/06E6C; E21B47/08C; (+1)
 Publication info: **GB2355528** - 2001-04-25
 Applicant: SCHLUMBERGER HOLDINGS (VG)
 IPC: **B06B1/06; E21B47/08; G01V1/52** (+5)
- 3 PIEZOELECTRIC ELEMENT FOR ULTRASONIC PROBE**
 Inventor: WAKABAYASHI KATSUHIRO; SAWADA YUKIHIKO; (+1)
 EC: A61B8/12D; B06B1/06E3
 Publication info: **JP8280098** - 1996-10-22
 Applicant: OLYMPUS OPTICAL CO
 IPC: **A61B8/12; B06B1/06; A61B8/12** (+4)
- 4 Acoustic transducer**
 Inventor: BROWN WILLIAM J (CA); CHEREK BOGDAN (CA); (+1)
 EC: B06B1/06E6F; G01H11/08
 Publication info: **US5339292** - 1994-08-16
 Applicant: FEDERAL IND IND GROUP INC (CA)
 IPC: **B06B1/06; G01H11/08; B06B1/06** (+3)
- 5 Piezoelectric acoustic transducer**
 Inventor: BROWN WILLIAM JOHN; VIUHKO HENRY THOMAS; (+1)
 EC: B06B1/06E6F; G01H11/08
 Publication info: **GB2260059** - 1993-03-31
 Applicant: FEDERAL IND IND GROUP INC (CA)
 IPC: **B06B1/06; G01H11/08; B06B1/06** (+2)
- 6 ULTRASONIC VIBRATOR**
 Inventor: UNO MASATAKE; KATAYAMA SUSUMU
 EC:
 Publication info: **JP5328498** - 1993-12-10
 Applicant: MATSUSHITA ELECTRIC WORKS LTD
 IPC: **H04R17/00; H04R17/10; H04R17/00** (+3)
- 7 ULTRASONIC TRANSDUCER**
 Inventor:
 EC: B06B1/06C3A
 Publication info: **GB1313535** - 1973-04-11
 Applicant: PARKE DAVIS & CO
 IPC: **B06B1/06; B06B1/06; (IPC1-7): H04R17/00**

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1 ULTRASONIC TRANSDUCER

Inventor:

Applicant: PARKE DAVIS & CO

EC: B06B1/06C3A

IPC: **B06B1/06; B06B1/06;** (IPC1-7): H04R17/00

Publication info: **GB1313535** - 1973-04-11

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1 Sound of ultrasound sensor

Inventor: DESERNO ROLF (DE); PFEIFFER HELMUT (DE)

Applicant: ENDRESS & HAUSER GMBH & CO KG

EC: H04R17/00

IPC: **H01L41/08; H04R17/00; H01L41/08** (+1)Publication info: **US2006076854** - 2006-04-13**2 Ultrasonic sensor assembly for use in logging-while-drilling applications**

Inventor: MASSON JEAN-PIERRE (US); PABON MIGUEL F (US)

Applicant: SCHLUMBERGER HOLDINGS (VG)

EC: B06B1/06E6C; E21B47/08C; (+1)

IPC: **B06B1/06; E21B47/08; G01V1/52** (+5)Publication info: **GB2355528** - 2001-04-25**3 PIEZOELECTRIC ELEMENT FOR ULTRASONIC PROBE**

Inventor: WAKABAYASHI KATSUHIRO; SAWADA YUKIHIKO; (+1)

Applicant: OLYMPUS OPTICAL CO

EC: A61B8/12D; B06B1/06E3

IPC: **A61B8/12; B06B1/06; A61B8/12** (+4)Publication info: **JP8280098** - 1996-10-22**4 Acoustic transducer**

Inventor: BROWN WILLIAM J (CA); CHEREK BOGDAN (CA); (+1)

Applicant: FEDERAL IND IND GROUP INC (CA)

EC: B06B1/06E6F; G01H11/08

IPC: **B06B1/06; G01H11/08; B06B1/06** (+3)Publication info: **US5339292** - 1994-08-16**5 Piezoelectric acoustic transducer**

Inventor: BROWN WILLIAM JOHN; VIUHKO HENRY THOMAS; (+1)

Applicant: FEDERAL IND IND GROUP INC (CA)

EC: B06B1/06E6F; G01H11/08

IPC: **B06B1/06; G01H11/08; B06B1/06** (+2)Publication info: **GB2260059** - 1993-03-31**6 ULTRASONIC VIBRATOR**

Inventor: UNO MASATAKE; KATAYAMA SUSUMU

Applicant: MATSUSHITA ELECTRIC WORKS LTD

EC:

IPC: **H04R17/00; H04R17/10; H04R17/00** (+3)Publication info: **JP5328498** - 1993-12-10**7 ULTRASONIC TRANSDUCER**

Inventor:

Applicant: PARKE DAVIS & CO

EC: B06B1/06C3A

IPC: **B06B1/06; B06B1/06**; (IPC1-7): H04R17/00Publication info: **GB1313535** - 1973-04-11Data supplied from the **esp@cenet** database - Worldwide

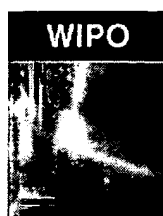
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Search Summary

piezoelectric: 5994 occurrences in 2242 records.

ring: 44211 occurrences in 20652 records.

annular: 13413 occurrences in 7005 records.

(ring OR annular): 26433 records.

(piezoelectric AND (ring OR annular)): 55 records.

matching: 6816 occurrences in 4429 records.

((piezoelectric AND (ring OR annular)) AND matching): 0 records.

housing: 69533 occurrences in 27245 records.

casing: 12671 occurrences in 4932 records.

(housing OR casing): 31703 records.

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[Basic](#)

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[Boolean](#)

[Advanced](#)

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Number

Boolean

Advanced

Help

Content

Searching

Search Language

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Query :
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Query: ((housing or casing)) <AND> (((acoustic*)) <in> abstract) <AND>
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